

WO 00/11159

PCT/BE99/00112

1

SEQUENCE LISTING

<110> CATHOLIC UNIVERSITY OF LOUVAIN

<120> PHARMACEUTICAL COMPOSITION INTENDED FOR THE TREATMENT OR
PREVENTION OF DIABETES OR OF CANCER



Home sections



<212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> 143...1643

<400> 1
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 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 112
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 160
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 208
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 256
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 304
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 352
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 400
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 448
 gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg gggggggggg 496

Pro Gly Met Gly Met Ser Asn Thr Tyr Thr Thr Leu Thr Pro Leu Glu
 123 137 131

GAG
 Pro Leu Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
 140 145 150

GAG
 Pro His His His His His His His His His His His His His His His His His His His
 155 160 165

GAG
 Ser Gly Asn Val Ser Gly Ser Ser Thr Thr Leu Met Arg Asp Glu Arg Gly
 170 175 180

GAG
 Leu Pro Ala Met Asn Asn Leu Tyr Ser Pro Tyr Lys Glu Met Pro Gly
 185 190 195

GAG
 Met Ser Glu Ser Ser Ser Pro Leu Ala Ala Thr Pro Leu Gly Asn Gly
 200 205 210

GAG
 Leu Gly Gly Leu His Asn Ala Glu Glu Ser Leu Pro Asn Tyr Gly Pro
 215 220 225

GAG
 Pro Gly His Arg Lys Met Leu Ser Pro Asn Thr Asp Ala His His Thr
 230 235 240

GAG
 Ala Met Leu Thr Arg Gly Glu Glu His Leu Ser Arg Gly Leu Gly Thr
 245 250 255

GAG
 Pro Pro Ala Ala Met Met Ser His Leu Asn Gly Leu His His Pro Gly
 260 265 270

GAG
 His Thr Glu Ser His Gly Pro Val Leu Ala Pro Ser Arg Glu Arg Pro
 275 280 285

GAG
 Pro Ser Ser Ser Ser Ser Gly Ser Glu Val Ala Thr Ser Gly Glu Leu Glu
 290 295 300

GAG
 Glu Ile Asn Thr Lys Glu Val Ala Glu Asn Ile Thr Ala Glu Leu Lys
 305 310 315

GAG
 Arg Tyr Ser Ile Pro Glu Ala Ile Pro Ala Glu Arg Val Leu Lys Arg
 320 325 330

GAG
 Ser Glu Gly Thr Leu Ser Arg Leu Leu Arg Asn Pro Lys Pro Thr Ser
 335 340 345

GAG
 Lys Leu Lys Ser Gly Arg Glu Thr Pro Arg Arg Met Arg Lys Thr Leu
 350 355 360

368 370 372

gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag
 Gln Gln Pro Gln Phe Gln Arg Met Ser Ala Leu Arg Leu Ala Ala Cys
 380 385 390

aaa gag aaa gag aaa gag aaa gag gag gag gag gag gag gag gag gag
 Lys Arg Lys Gln Gln Gln Pro Asn Lys Asp Arg Asn Asn Ser Gln Lys
 395 400 405

aag too gag gag gag gag gag gag gag gag gag gag gag gag gag gag
 Lys Ser Arg Leu Val Phe Thr Asp Leu Gln Arg Arg Thr Leu Phe Ala
 410 415 420

atc ttc aag gag aac aaa gag gag gag gag gag gag gag gag gag gag
 Ile Phe Lys Gln Asn Lys Arg Pro Ser Lys Gln Met Gln Ile Thr Ile
 425 430 435 440

too gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag
 Ser Gln Gln Leu Gly Leu Gln Leu Thr Thr Val Ser Asn Phe Phe Met
 445 450 455

aac gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag
 Asn Ala Arg Arg Arg Ser Leu Gln Lys Thr Gln Asp Asp Leu Ser Thr
 460 465 470

gag gag too gag too gag too gag gag gag gag gag gag gag gag gag
 Gly Gly Ser Ser Ser Thr Ser Ser Thr Cys Thr Lys Ala
 475 480 485

agctgcacatc ggggcacagc cacttcacaa cgaaggacac agataccaaa agaaaaacaaa
 1513

ggaaaaagac accggaatcc tagctggggc ccttcactgg ag
 1555

<110> 2
 <111> 485
 <112> 997
 <113> Homo sapiens

<400> 2
 Met Asn Pro Gln Leu Thr Met Gln Ser Leu Gly Thr Leu His Gly Ala
 1 5 10 15

Arg Gly Gly Gly Ser Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly Gly
 20 25 30

Gly Gly Gly Pro Gly His Gln Gln Gln Leu Leu Ala Ser Pro Ser Pro
 35 40 45

His His Ala Arg Arg Gly Pro Arg Gly Ser Leu Arg Gly Pro Pro Pro
 50 55 60

Pro Pro Thr Ala His Gln Gln Leu Gly Thr Ala Ala Ala Ala Ala Ala
 65 70 75 80

Ala Ala Ser Arg Ser Ala Met Val Thr Ser Met Ala Ser Ile Leu Asp
 85 90 95

Gly Gly Asp Tyr Arg Pro Gln Leu Ser Ile Pro Leu His His Ala Met
 100 105 110

Ser Met Ser Cys Asp Ser Ser Ser Pro Gly Met Gly Met Ser Asn Thr
 115 120 125
 Tyr Thr Thr Leu Thr Pro Leu Gln Pro Leu Pro Pro Ile Ser Thr Val
 130 135 140
 Ser Asp Lys Phe His His Pro His Pro His His His Pro His His His
 145 150 155 160
 His His His His His Gln Arg Leu Ser Gly Asn Val Ser Gly Ser Phe
 165 170 175
 Thr Leu Met Arg Asp Gln Arg Gly Leu Pro Ala Met Asn Asn Leu Tyr
 180 185 190
 Ser Pro Tyr Lys Glu Met Pro Gly Met Ser Gln Ser Leu Ser Pro Leu
 195 200 205
 Ala Ala Thr Pro Leu Gly Asn Gly Leu Gly Gly Leu His Asn Ala Gln
 210 215 220
 Gln Ser Leu Pro Asn Tyr Gly Pro Pro Gly His Asp Lys Met Leu Ser
 225 230 235 240
 Pro Asn Phe Asp Ala His His Thr Ala Met Leu Thr Arg Gly Glu Gln
 245 250 255
 His Leu Ser Arg Gly Leu Gly Thr Pro Pro Ala Ala Met Met Ser His
 260 265 270
 Leu Asn Gly Leu His His Pro Gly His Thr Gln Ser His Gly Pro Val
 275 280 285
 Leu Ala Pro Ser Arg Glu Arg Pro Pro Ser Ser Ser Ser Gly Ser Gln
 290 295 300
 Val Ala Thr Ser Gly Gln Leu Glu Glu Ile Asn Thr Lys Glu Val Ala
 305 310 315 320
 Gln Arg Ile Thr Ala Glu Leu Lys Arg Tyr Ser Ile Pro Gln Ala Ile
 325 330 335
 Phe Ala Gln Arg Val Leu Cys Arg Ser Gln Gly Thr Leu Ser Asp Leu
 340 345 350
 Leu Arg Asn Pro Lys Pro Trp Ser Lys Leu Lys Ser Gly Arg Glu Thr
 355 360 365
 Phe Arg Arg Met Trp Lys Trp Leu Gln Glu Pro Glu Phe Gln Arg Met
 370 375 380
 Ser Ala Leu Arg Leu Ala Ala Cys Lys Arg Lys Glu Gln Glu Pro Asn
 385 390 395 400
 Lys Asp Arg Asn Asn Ser Gln Lys Lys Ser Arg Leu Val Phe Thr Asp
 405 410 415
 Leu Gln Arg Arg Thr Leu Phe Ala Ile Phe Lys Gln Asn Lys Arg Pro
 420 425 430

Ser Lys 111 Met Gln Ile Thr Ile Ser Gln Gln Leu Gly Leu Gln Leu
435 441 448

Thr Thr Val Ser Asn Phe Phe Met Asn Ala Arg Arg Arg Ser Leu Gln
450 455 460

Lys Trp Gln Asp Asp Leu Ser Thr Gly Gly Ser Ser Ser Thr Ser Ser
465 470 475 480

Thr Cys Thr Lys Ala
485

<210> 3

<211> 1485

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (1)..(1485)

<400> 3
atg gag ctg agc ctg gag agc ctg gag ggc ctg cag agc ctg ggc cag 45
Met Gln Leu Ser Leu Gln Ser Leu Gly Gly Leu His Ser Val Ala His
1 5 10 15
ggc cag gag gag gag ctg agc agc ggc cag gag ctg ctg gag ctg gag 95
Ala Gln Ala Gly Gln Leu Leu Ser Pro Gly His Ala Arg Ser Ala Ala
20 25 30
ggc cag cag gag gag gag ctg ctg gag ggc gag gag ctg gag ctg gag 144
Ala Gln His Arg Gly Leu Val Ala Pro Gly Arg Pro Gly Leu Val Ala
35 40 45
ggc atg gag gag ctg ctg gag gag gag gag gag gag gag gag gag gag 182
Gly Met Ala Ser Leu Leu Asp Gly Gly Gly Gly Gly Gly Gly Gly Gly
50 55 60
ggc gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag 240
Ala Gly Gly Ala Gly Gly Ala Gly Ser Ala Gly Gly Gly Ala Asp Phe
65 70 75 80
ggc gag gag ctg gag gag gag gag ctg gag gag gag gag gag gag gag 288
Arg Gly Gln Leu Ala Gly Pro Leu His Pro Ala Met Gly Met Ala Cys
85 90 95
ggc gag gag gag ctg gag gag gag gag gag gag gag gag gag gag gag 336
Gln Ala Pro Gly Leu Gly Gly Thr Tyr Thr Thr Leu Thr Pro Leu Gln
100 105 110
cag ctg gag gag ctg gag gag ctg gag gag gag gag gag gag gag gag 394
His Leu Gln Pro Leu Ala Ala Val Ala Asp Lys Phe His Gln His Ala
115 120 125
ggc gag gag gag ctg gag gag gag gag gag gag gag gag gag gag gag 432
Ala Ala Ala Ala Val Ala Gly Ala His Gly Gly His Pro His Ala His
130 135 140
ggc gag gag gag gag gag gag gag gag gag gag gag gag gag gag gag 480

[illegible]

A0110> 4
 A0111> 496
 A0112> 507
 A0113> Homo sapiens

<400> 4
 Met Glu Leu Ser Leu Glu Ser Leu Gly Gly Leu His Ser Val Ala His
 5 10 15
 1
 Ala Glu Ala Gly Glu Leu Leu Ser Pro Gly His Ala Arg Ser Ala Ala
 20 25 30
 Ala Glu His Arg Gly Leu Val Ala Pro Gly Arg Pro Gly Leu Val Ala
 35 40 45
 Gly Met Ala Ser Leu Leu Asp Gly Gly Gly Gly Gly Gly Gly Gly
 50 55 60
 Ala Gly Gly Ala Gly Gly Ala Gly Ser Ala Gly Gly Gly Ala Asp Phe
 65 70 75 80
 Arg Gly Glu Leu Ala Gly Pro Leu His Pro Ala Met Gly Met Ala Cys
 85 90 95
 Glu Ala Pro Gly Leu Gly Gly Thr Thr Thr Thr Leu Thr Pro Leu Glu
 100 105 110
 His Leu Pro Pro Leu Ala Ala Val Ala Asp Cys Phe His Glu His Ala
 115 120 125
 Ala Ala Ala Ala Val Ala Gly Ala His Gly Gly His Pro His Ala His
 130 135 140
 Pro His Pro Ala Ala Ala Pro Pro Pro Ser Pro Pro Pro Glu Arg Leu

145
 Ala Ala Ser Val Ser Gly Ser Phe Thr Leu Met Arg Asp Glu Arg Ala
 163 175
 Ala Leu Ala Ser Val Gly His Leu Tyr Gly Pro Tyr Gly Lys Glu Leu
 180 185 190
 Pro Ala Met Gly Ser Pro Leu Ser Pro Leu Pro Asn Ala Leu Pro Pro
 195 200 205
 Ala Leu His Gly Ala Pro Glu Pro Pro Pro Pro Pro Pro Pro Pro
 210 215 220
 Leu Ala Ala Tyr Gly Pro Pro Gly His Leu Ala Gly Asp Lys Leu Leu
 225 230 235 240
 Pro Pro Ala Ala Phe Glu Pro His Ala Ala Leu Leu Gly Arg Ala Glu
 245 250 255
 Asp Ala Leu Ala Arg Gly Leu Pro Gly Gly Gly Gly Gly Thr Gly Ser
 260 265 270
 Gly Gly Ala Gly Ser Gly Ser Ala Ala Gly Leu Leu Ala Pro Leu Gly
 275 280 285
 Gly Leu Ala Ala Ala Gly Ala His Gly Pro His Gly Gly Gly Gly Gly
 290 295 300
 Pro Gly Gly Ser Gly Gly Gly Pro Ser Ala Gly Ala Ala Ala Glu Glu
 305 310 315 320
 Ile Asn Thr Lys Glu Val Ala Gln Arg Ile Thr Ala Glu Leu Lys Arg
 325 330 335
 Tyr Ser Ile Pro Gln Ala Ile Phe Ala Gln Arg Ile Leu Cys Arg Ser
 340 345 350
 Gln Gly Thr Leu Ser Asp Leu Leu Arg Asn Pro Lys Pro Trp Ser Lys
 355 360 365
 Leu Lys Ser Gly Arg Glu Thr Phe Arg Arg Met Trp Lys Trp Leu Gln
 370 375 380
 Glu Pro Glu Phe Gln Arg Met Ser Ala Leu Arg Leu Ala Ala Cys Lys
 385 390 395 400
 Arg Lys Glu Gln Glu Gln Gln Lys Glu Arg Ala Leu Gln Pro Lys Lys
 405 410 415
 Gln Arg Leu Val Phe Thr Asp Leu Gln Arg Arg Thr Leu Ile Ala Ile
 420 425 430
 Phe Lys Glu Asn Lys Arg Pro Ser Lys Glu Met Gln Val Thr Ile Ser
 435 440 445
 Gln Gln Leu Gly Leu Glu Leu Asn Thr Val Ser Asn Phe Phe Met Asn
 450 455 460
 Ala Arg Arg Arg Cys Met Asn Arg Trp Ala Glu Glu Pro Ser Thr Ala
 465 470 475 480

Pro Gly Gly Pro Ala Gly Ala Thr Ala Thr Phe Ser Lys Ala
486 490